

## **Amendments to the Claims**

This listing of claims will replace all prior versions and listings of claims in the application.

### **Listing of Claims:**

Claims 1-40 (Cancelled).

41. (Previously presented) A system comprising:

a motor coupleable to a power supply;

a sensor coupleable to the motor; and

a control circuit including a comparator coupled between an input and an output, the

input being coupleable to the sensor, wherein the control circuit provides an

output signal on the output responsive to an amount of charge provided from

the power supply that is at least equal to a predetermined threshold, the

predetermined threshold selected from a profile of said thresholds that

decrease in magnitude during application of power to said motor.

42. (Previously presented) The system of claim 41 wherein the control circuit includes an integrator coupled between the input and the output.

43. (Cancelled).

44. (Previously presented) The system of claim 41 wherein the comparator is a one-shot type.

45. (Previously presented) The system of claim 41 further comprising motor drivers that are coupleable to the motor and the output, wherein the motor drivers are controlled responsive to the output signal.

46. (Previously presented) The system of claim 45 wherein the motor drivers are disabled responsive to the amount of charge being at least equal to the predetermined threshold.

Claims 47-54 (Cancelled).

55. (Previously presented) The system of claim 41, wherein the profile is applied during acceleration of the motor to an operational velocity.

Claim 56 (Cancelled).

57. (Previously presented) A system comprising:

a motor coupleable to a power supply;

a sensor coupleable to the motor; and

a control circuit including an integrator coupled between an input and an output, the

input being coupleable to the sensor, wherein the control circuit provides an output signal on the output responsive to an amount of charge provided from the power supply that is at least equal to a predetermined threshold, the

predetermined threshold selected from a profile of said thresholds that decrease in magnitude during application of power to said motor.

58. (Previously presented) The system of claim 57, further comprising motor drivers that are coupleable to the motor and the output, wherein the motor drivers are controlled responsive to the output signal.

59. (Previously presented) The system of claim 58, wherein the motor drivers are disabled responsive to the amount of charge being at least equal to the predetermined threshold.

60. (Previously presented) The system of claim 57, wherein the profile is applied during acceleration of the motor to an operational velocity.